

Naval Sea Systems Command

NAVAL SURFACE WARFARE CENTER

Amphibious Warfare

Marine Corps &
Strategic Sealift Division



COASTAL SYSTEMS STATION



DAHLGREN DIVISION

Navy Needs

Amphibious Ships

- Improve Marine Corps personnel/equipment interfaces with amphibious ships
- Construct new ships and introduce to the Fleet

Landing Craft, Air Cushion (LCAC)

- Over-the-horizon (OTH) assault capability during amphibious operations

Amphibious Assault Systems

- Improve Navy and Marine Corps ability to meet operational requirements for amphibious assaults
- Commander Amphibious Task Force (CATF) capability to identify, track, communicate with, and control naval surface ships/craft during OTH amphibious assaults

Our Role

Amphibious Ships

- Develop LCAC interface systems with amphibious ships and conduct interface trials
- Conduct trial deficiency tracking during final contract trials, acceptance trials, and builder's trials
- Provide Board of Inspection and Survey (INSURV) agent expertise during trials
- Provide shock trials technical support
- Conduct systems engineering and analysis to interface Marine Corps equipment/weapons with amphibious ships

Landing Craft, Air Cushion (LCAC)

- Conduct engineering analyses, tests, trials, and state-of-the-art marine technology installations for LCAC systems
- Develop and modify LCAC operating systems for increased reliability, maintainability, and availability
- Provide acquisition, in-service engineering, and life-cycle management support
- Develop alternate missions including mine countermeasures (MCM), personnel transport, medical evacuation (MEDEVAC), and noncombatant evacuation operations
- Provide direct technical support to Fleet Assault Craft Units

Amphibious Assault Systems

- AN/KSQ-1—Develop Global Positioning System (GPS) interface unit to provide dynamic reference for position, location, and reporting system
- Provide control and communication for launch through transit, off-loading, and return to 100 nmi OTH



Products and Services

- Welldeck/LCAC/Marine Corps assault systems interface
- Trial Deficiency Management System
- LCAC test range—for land and sea-based test, evaluation, and development of systems and for platform survivability assessments
- AN/KSQ-1 installations on Amphibious Ready Group ships
- LCAC C3N Laboratory
- LCAC Gold Disk Facility
- LCAC Personnel Transport Module
- LCAC MCM adapter kits
- LCAC alternate missions exercise participation



NAVAL SEA SYSTEMS COMMAND



Panama City

Dahlgren

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